

(19)



JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11) Publication number: **01132625 A**(43) Date of publication of application: **25.05.89**

(51) Int. Cl.

C08G 61/08
G02B 1/04
G11B 7/24

(21) Application number: **62288527**(22) Date of filing: **17.11.87**(71) Applicant: **JAPAN SYNTHETIC RUBBER CO LTD**

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(54) OPTICAL MATERIAL

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(57) Abstract:

PURPOSE: To make it possible to form an optical material having excellent optical properties, low hygroscopicity and good heat resistance, by (co) polymerizing a polar group substituted tetracyclododecene derivative through ring opening.

CONSTITUTION: This optical material is formed from a ring-opening polymer of at least one-tetracyclo[4.4.0.1^{2,5}.1^{7,10}]-3dodecene derivative or its copolymer with another copolymerizable monomer. In formula I, A¹ and B¹ are each a hydrogen atom or a 1W10C hydrocarbon group, X¹ and Y¹ are each a hydrogen atom, a 1W10C hydrocarbon group, a halogen atom or a halogenated 1W10C hydrocarbon group or the like. Examples of said copolymerizable monomers include bicyclo[2.2.1]-2-heptene derivative having a polar substituent group, of formula II (wherein A² and B² are each a hydrogen atom or a 1W10C hydrocarbon group, X² and Y² are each a hydrogen atom, 1W10C hydrocarbon group, a halogen atom, a halogenated 1W10C hydrocarbon group or the like).

